

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently amended) A method ~~of~~for producing a honeycomb structure, comprising the steps of:  
forming two hexagonal cell metal plates each having uniformly-spaced hexagonal pegs, using a mould and a press;  
applying a fusing material or strong adhesive to outer surfaces of the hexagonal pegs; and  
using a press and a die to form two overlapping the metal plates that have hexagonal pegs protruding out on one side and applying welding material or some adhesive onto the hexagonal pegs and then joining the two formed metal plates by facing the protruding sides to each other such that surfaces of the metal plates, from which the hexagonal pegs are protruded, face each other, and coupling the metal plates such that adjacent ones of the hexagonal pegs of the metal plates are engaged, thereby producing a honeycomb structure having continuously joined cells.
  
2. (Currently amended) The method ~~of~~according to claim 1, wherein the hexagonal pegs have different polygonal shapes such as triangular, square, and octagonal or even circular may be substituted with a pentagonal, square, triangular, or circular cross-sectional shape.